

Great Lakes Instrumentation Collaboratory

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Students will increasingly need to work in a globalized community with shared resources. Our goal is to create a learning community for instrumental environmental analysis between two sets of students: East Africa and the Greater Chicago area.

Based on the work accomplished during Discovery Corps Fellowship we have established ties with Egerton University in Njoro, Kenya; Kenya Methodist University; and the University of Dar Es Salaam. Educational resources (lab instructions; curricular material) are shared via the Analytical Sciences Digital Library (ASDL) platform.

Water, soil, plant, and fish samples are prepared by students at any of the participating universities and sent to Loyola's GCMS. A methods file is developed off line; the instrument accessed through the internet, activated, and monitored via web camera. Final data is posted into a data base shared for comparison by students at different universities.

Student learning of instrumentation via remote control is monitored by assessment at strategic points within the entire analytical process.

